

AK J556RH

Description: AK-J556RH is an ultra-low hydrogen high toughness low alloy steel electrode with low hydrogen potassium type alkaline coating. AC and DC dual use, can perform all-position welding. The welding process performance is excellent, the arc is stable, the spatter is small, the slag removal is easy, and the welding seam is beautiful. The deposited metal has excellent plasticity, toughness and crack resistance.

Application: It is suitable for the welding of important low-alloy steel structures such as offshore oil production platforms, ships, and pressure equipment.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cu	Cr	Mo
Requirement	0.12	0.6	1.0-1.8	0.02	0.020	0.6-1.2	---	---	---
Actual Result	0.07	0.45	1.6	0.010	0.015	0.09	---	---	---

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 550	≥460	≥ 17	≥47(-40℃)
Actual Result	580	480	28	170

Recommended welding parameters:

Diameter / mm	2.5	3.2	4.0	5.0
Welding current / A	70-100	100-140	140-180	180-220